

Service Manual

PM-66SE F
74PM66 / 11B / 12B / 15B
Integrated stereo amplifier

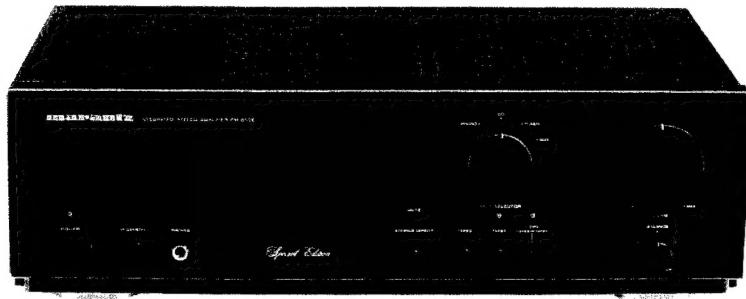


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Please use this service manual with referring to the user guide (D.F.U.) without fail.

修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

marantz®

model PM-66SE

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS:

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature: any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA

MARANTZ AMERICA, INC.
440 MEDINAH ROAD
ROSELLE, ILLINOIS 60172-2330
USA
PHONE : 708-307-3100
FAX : 708-307-2687

CANADA

LENBROOK INDUSTRIES LIMITED
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PICKERING, ONTARIO L1W 3K1
CANADA
PHONE : 416-831-6333
FAX : 416-831-6936

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5800 JB EINDHOVEN
THE NETHERLANDS
PHONE : +31-40-2732241
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PROFESSIONAL-USA

SUPERSCOPE TECHNOLOGIES, INC.
MARANTZ PROFESSIONAL PRODUCTS
1000 CORPORATE BLVD., SUITE D
AURORA, ILLINOIS 60504 USA
PHONE : 708-820-4800
FAX : 708-820-8103

PROFESSIONAL-CANADA

TC ELECTRONICS CANADA LTD
540 FIRING AVE.
BAIE D'URFÉ, QUEBEC H9X 3T2
CANADA
PHONE : 514-457-4044
FAX : 514-457-5524

TRADING

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HONG-KONG

FORWARD INTERNATIONAL CORP. LTD.
15 TH FLOOR, REGENT CENTRE,
88 QUEEN'S ROAD, CENTRAL, H. K.
PHONE : +852 521-0883
FAX : +852 521-7835

THAILAND

MRZ STANDARD CO., LTD.
746-750 WANGBURAPA BANGKOK
10200 THAILAND
PHONE : +66 2222 9181
FAX : +66 2225 8871

TAIWAN

PAI-YUING CO., LTD.
6 TH FL NO. 148 SUNG KIANG RORD,
TAIPEI, 10429. TAIWAN R.O.C.
PHONE : +886 (2) 5221304-8
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NO. 102 JALAN SS 21/35, DAMANSARA
UTAMA, 47400 PETALING JAYA
SELANGOR DARUL EHSAN,
MALAYSIA
PHONE : +60 3-7184666
FAX : +60 3-7173828

SINGAPORE

FORWARD MARKETING (SINGAPORE) PTE. LTD.
29, LENG KEE ROAD
SINGAPORE 159099,
PHONE : +65 475-4555
FAX : +65 475-8623

JAPAN-Technical

MARANTZ JAPN INC.
35-1, 7 - chome, Sagamiono
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PHONE : +81 427 48 2181
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日本マランツ株式会社

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営業本部〒150 東京都渋谷区恵比寿南1丁目11番9号

SHOCK, FIRE HAZARD SERVICE TEST:

CAUTION: After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard NO.1492.

In case of difficulties, do not hesitate to contact the Technical
Department at above mentioned address.

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1. TECHNICAL SPECIFICATIONS

Power output

RMS 8 ohms / 4 ohms	50 / 70W
DIN 8 ohms / 4 ohms	55 / 75W

IHF dynamic power

8 ohms / 4 ohms	80 / 110W
THD at 8 ohms rated output	0.008 %
Intermodulation distortion	0.008 %
Damping factor	100

Magnetic cartridge input

Input sensitivity impedance	2.5 mV / 47 k ohm
Accuracy of frequency response to IEC RIAA	0.5 dB
Signal to noise ratio (IHF A weighted)	87 dB

Tuner / CD / Aux / Tape inputs

Input sensitivity impedance	150 mV / 33 k ohm
Signal to noise ratio (A weighted)	97 dB
Frequency response (-3 dB limits)	5 Hz - 70 kHz
Channel separation (1 kHz / 10 kHz)	> 85 dB / 65 dB

General

Power Requirements

/ 12, / 15 versions	230 V AC, 50 Hz
/ 11 version	110 / 120 / 220 / 240 V AC, 50 / 60 Hz
/ F version	100 V AC, 50 / 60 Hz

Dimensions (MAX)

Width	439 mm
Height	138 mm
Depth	343 mm
Weight	
Unit alone	6.7 kg

Specifications subject to change without prior notice.

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing

Item	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
ACVTVM	Voltage measurements (AC)
Oscilloscope	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester	Trouble shooting
DCVTVM	Voltage measurements (DC)
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors potential of primary power to amplifier
Variable Autotransformer	Adjust level of primary power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup

3. IDLING CURRENT ADJUSTMENT

- Before switching the power ON, set the Master Volume control to the minimum position and the Balance to the center positions. Also set semi-fixed resistors R755 (L CH) and R756 (R CH) on PCB P701 to the center positions.
- Each of the cement resistors R767 (L CH) and R768 (R CH) on the PCB P701 is provided with three test points. Connect a digital voltmeter, set for the DC voltage input, to the test points at the two extremities of the three test points of R767 or R768.
- After the setup above, switch the power ON and adjust semi-fixed resistor R755 (L CH) or R756 (R CH) on PCB P701 according to the digital voltmeter reading. The target setting value is 14 mV (38.9mA) for both the L CH and R CH.

Please refer to the table below.

Elapsed time after power ON	Idling current setting value
30 sec. - 1 min.	5 mV
1 min. - 2 min.	8 mV
2 min. - 4 min.	10.5 mV
More than 6 min.	14 mV

Note on Safety :

Symbol **▲** Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol **▲**. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

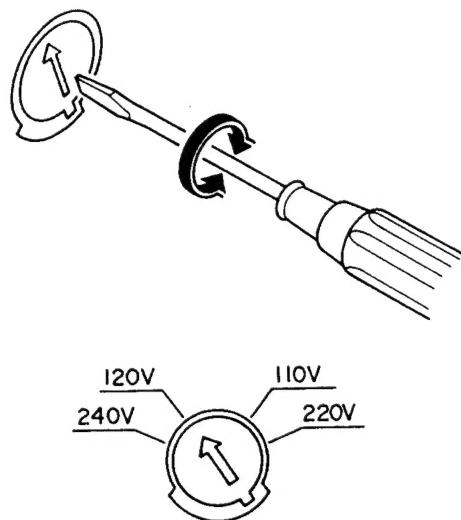
4. VOLTAGE CONVERSION

• /11B VERSION MODEL ONLY

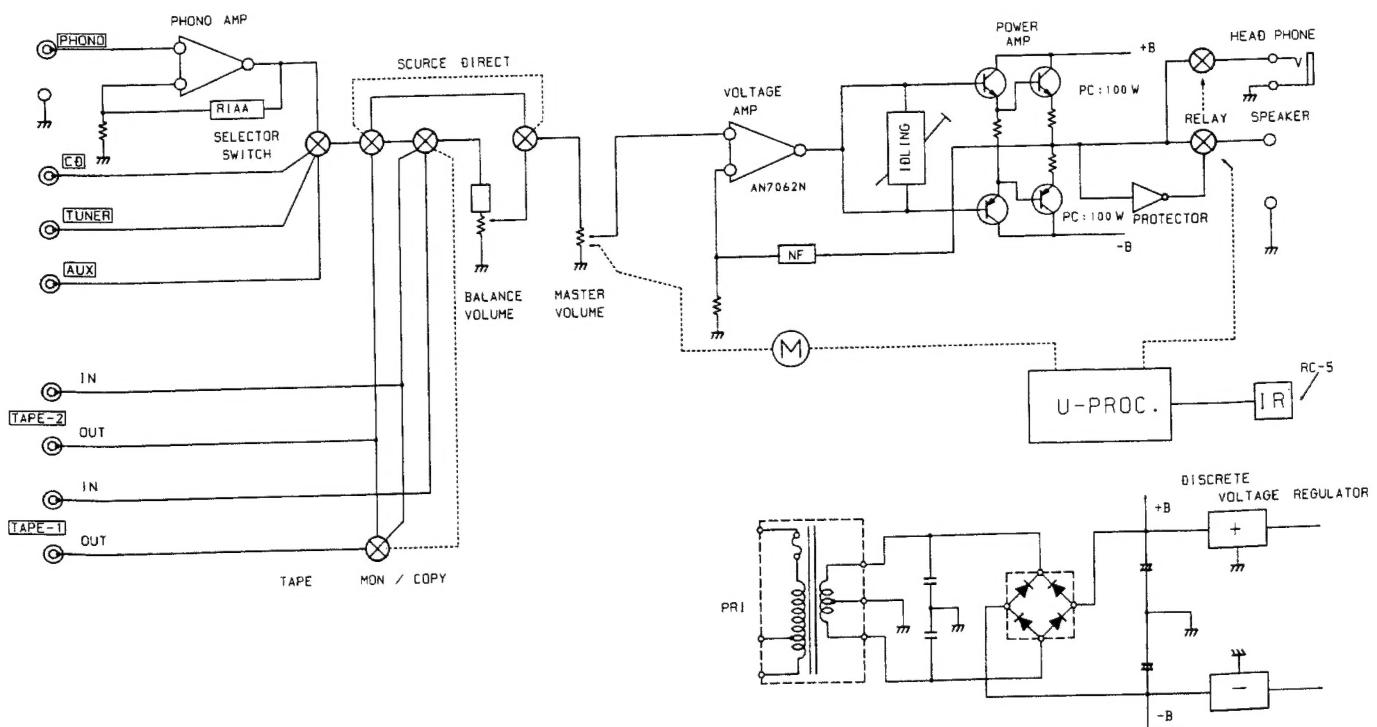
To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

VOLTAGE SELECTOR

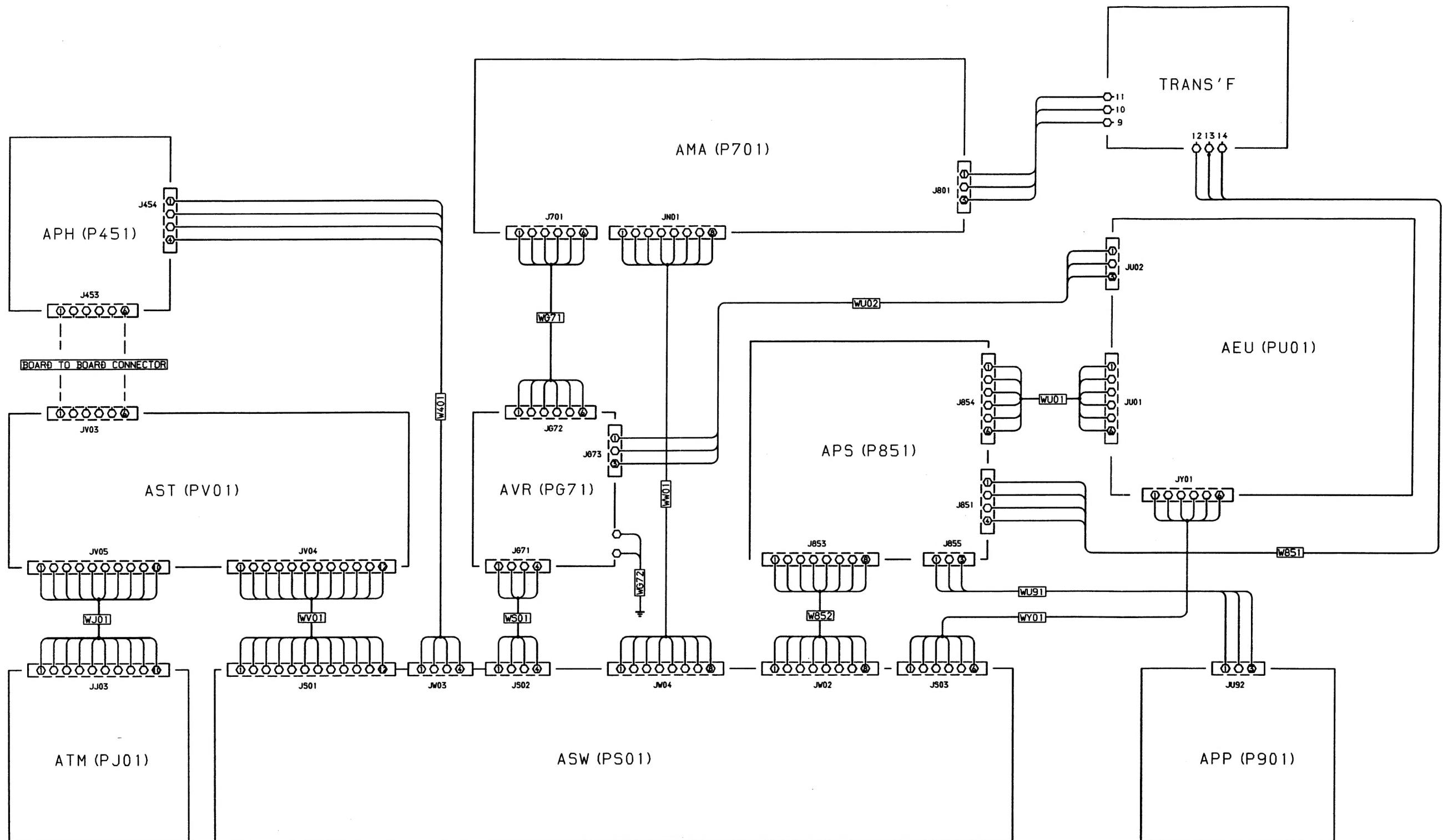
CAUTION
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.



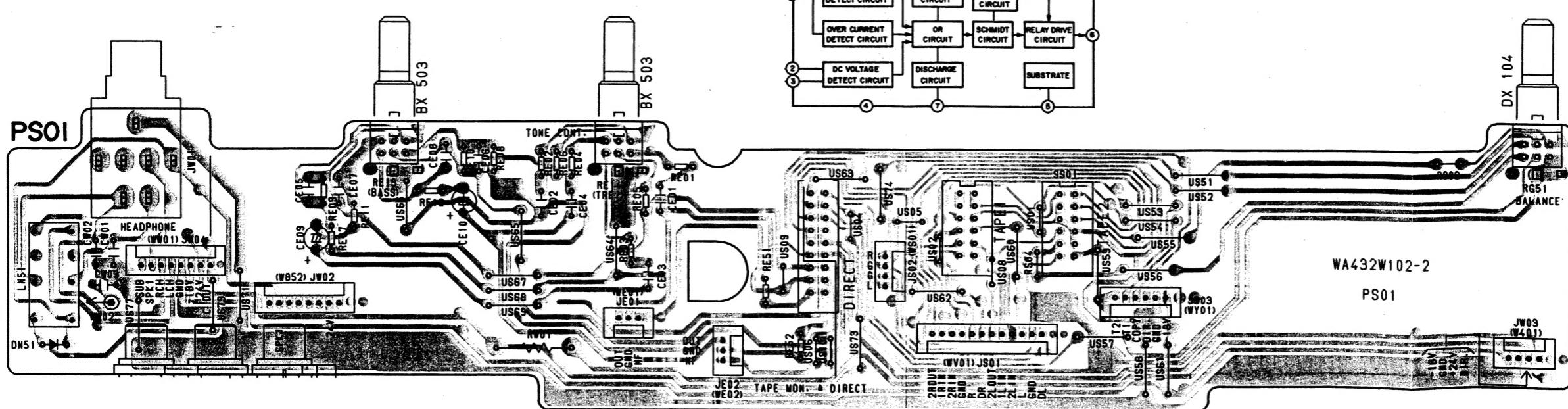
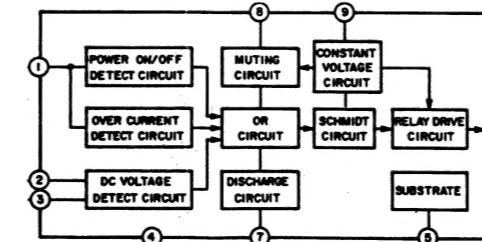
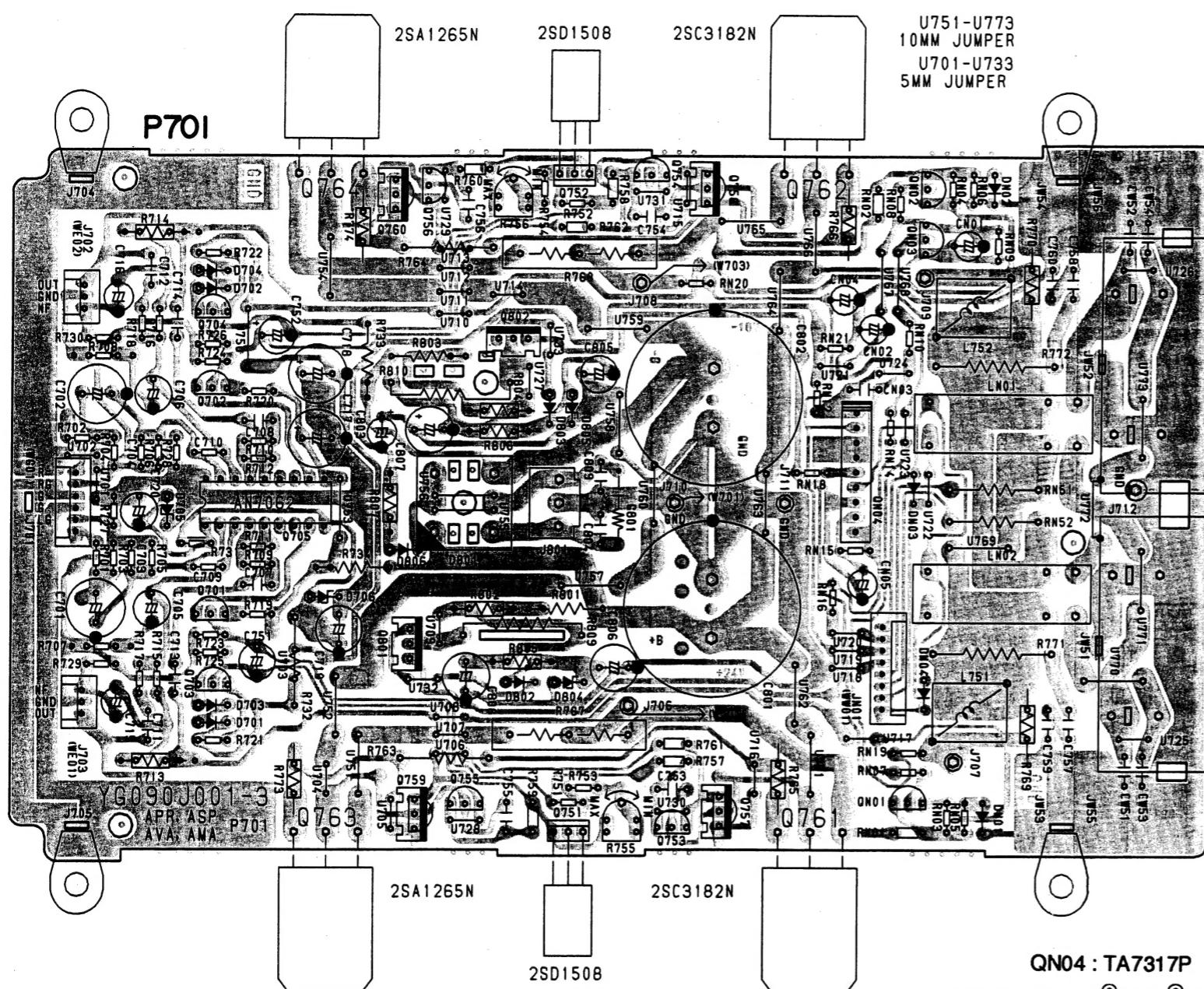
5. BLOCK DIAGRAM



6. WIRING DIAGRAM

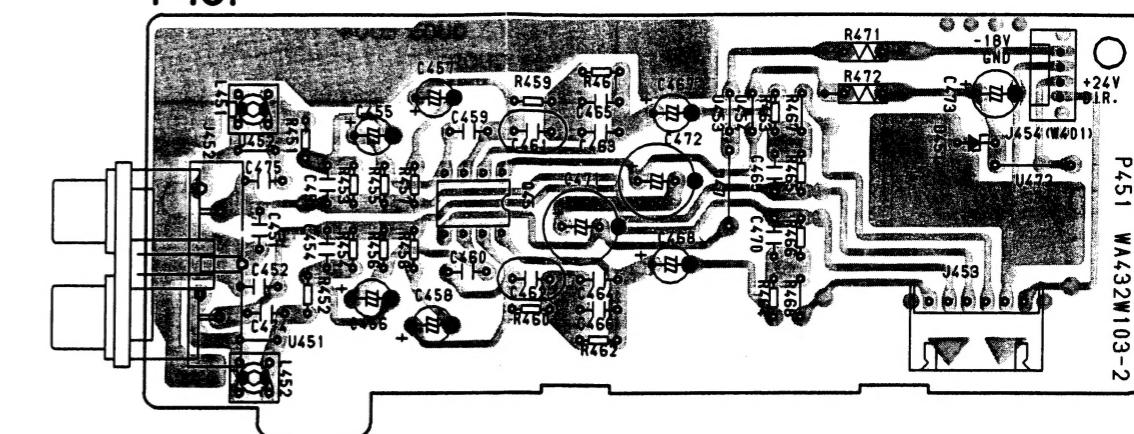


Q701 Q704 Q705 Q764 Q760 Q756 Q802 Q752 Q754 Q758 Q762 QNO2 QNO3
Q763 Q801 Q759 Q755 Q751 Q753 Q757 Q761 QNO4 QNO1



P45

Q451

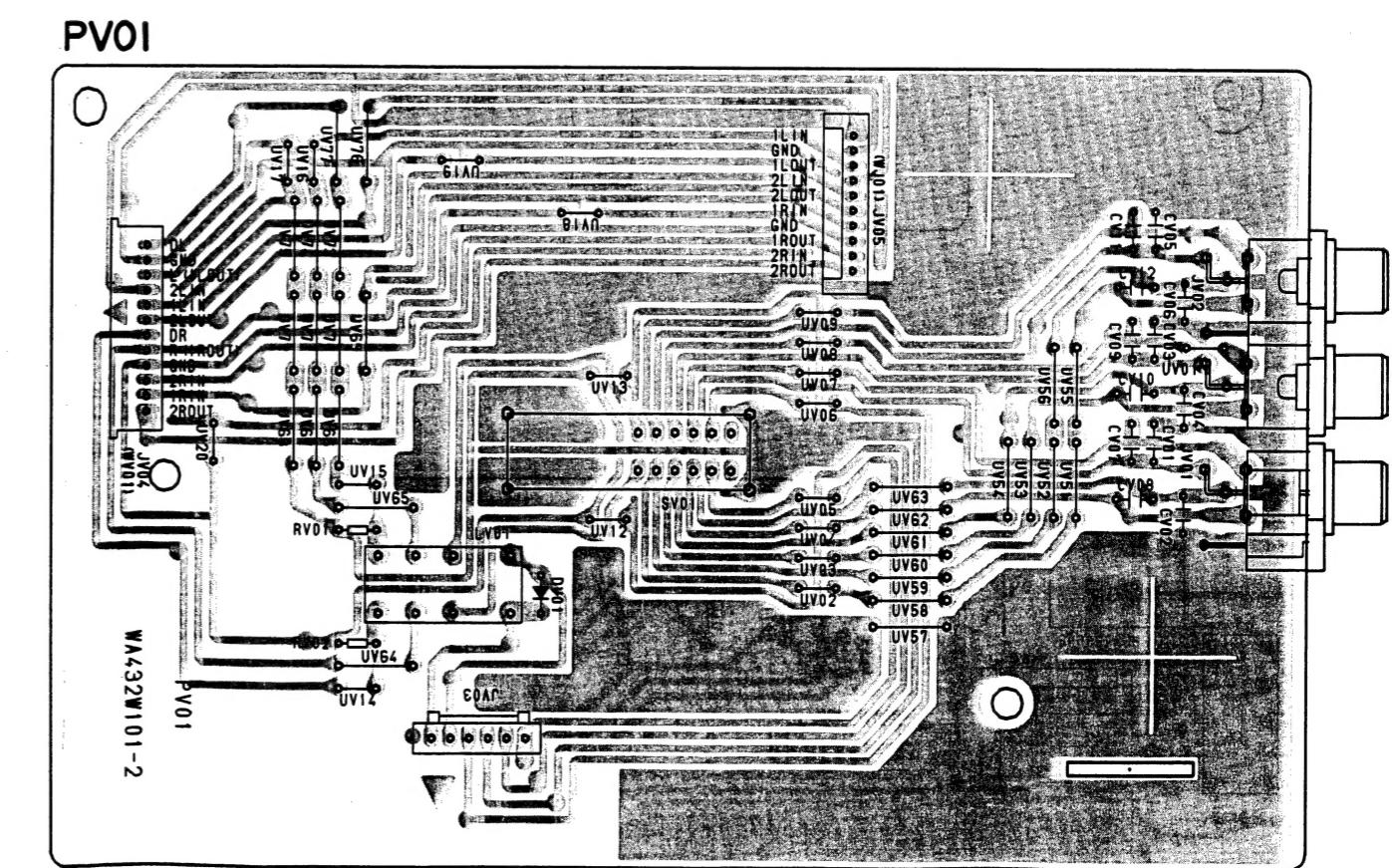
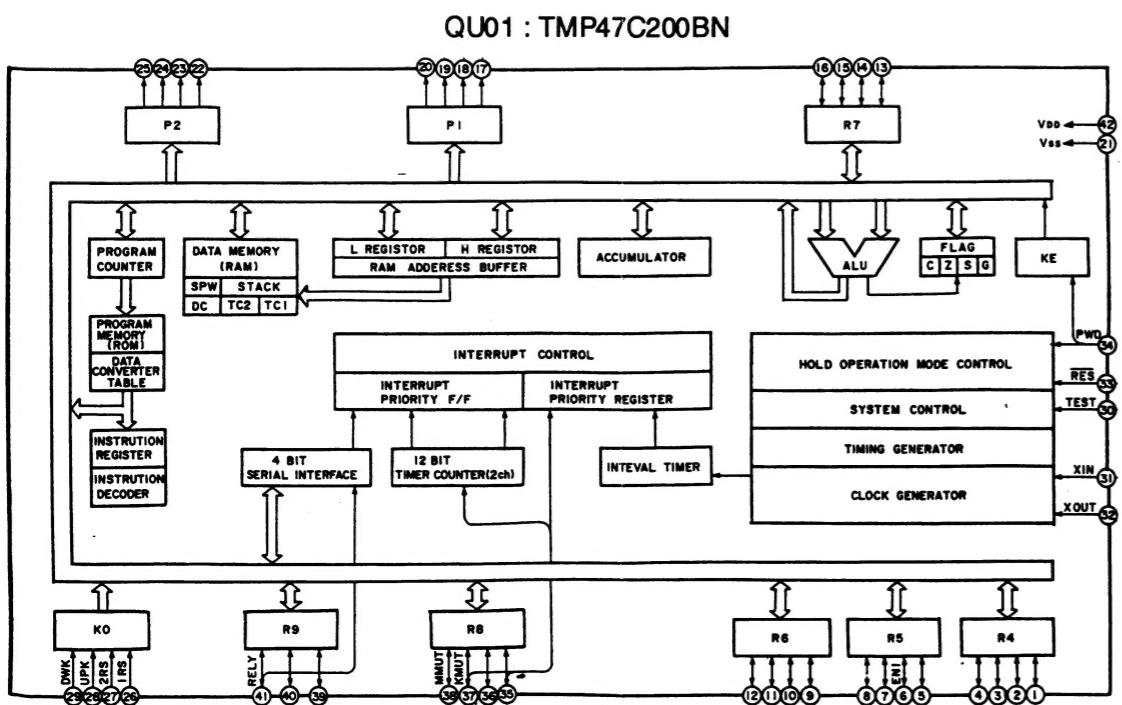
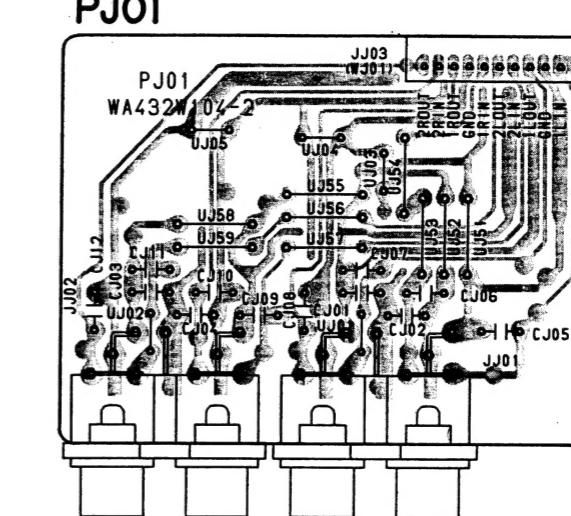
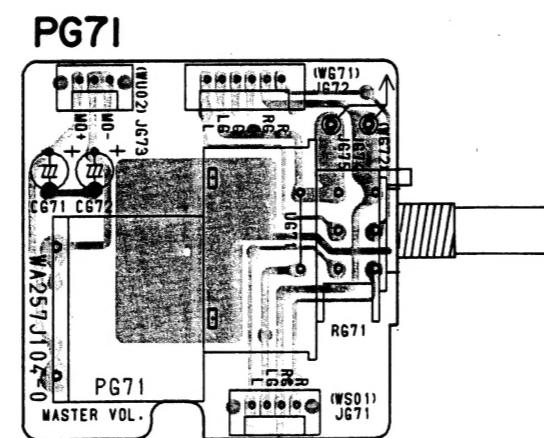
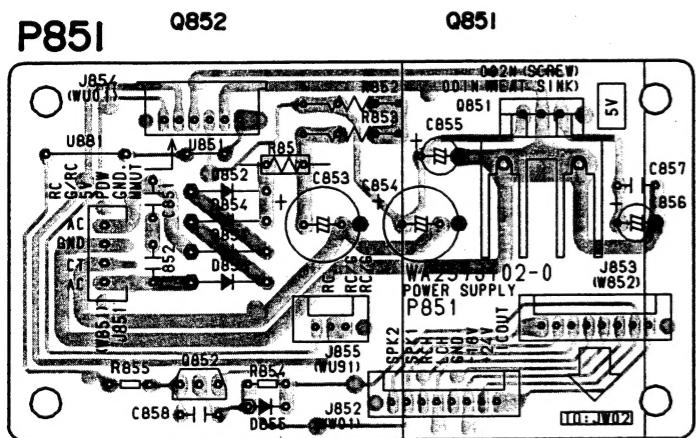
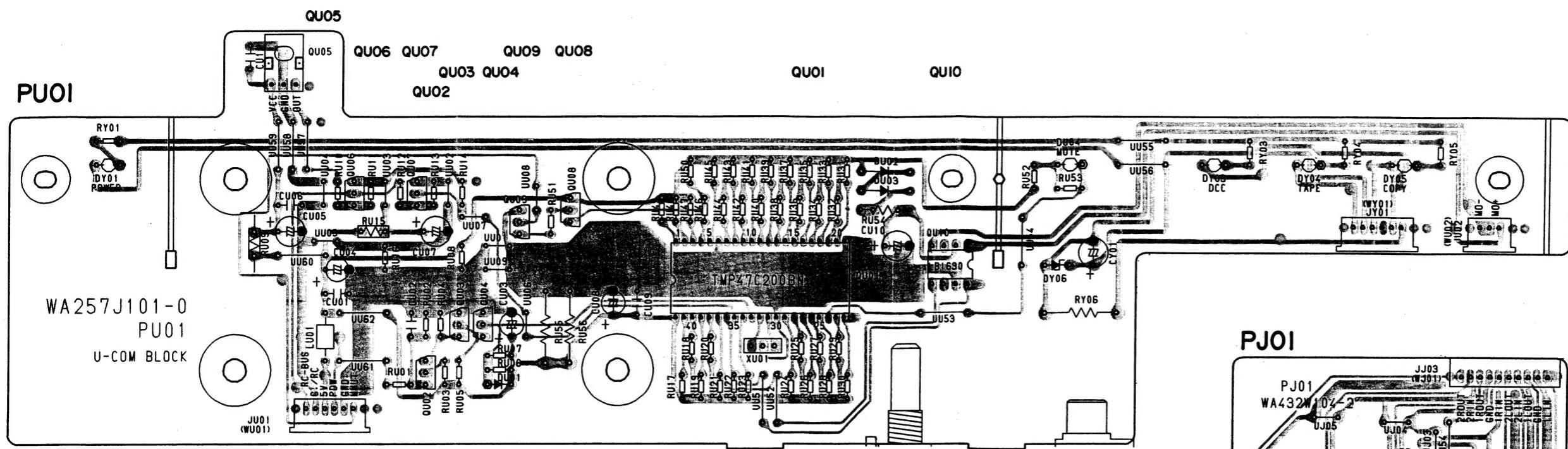


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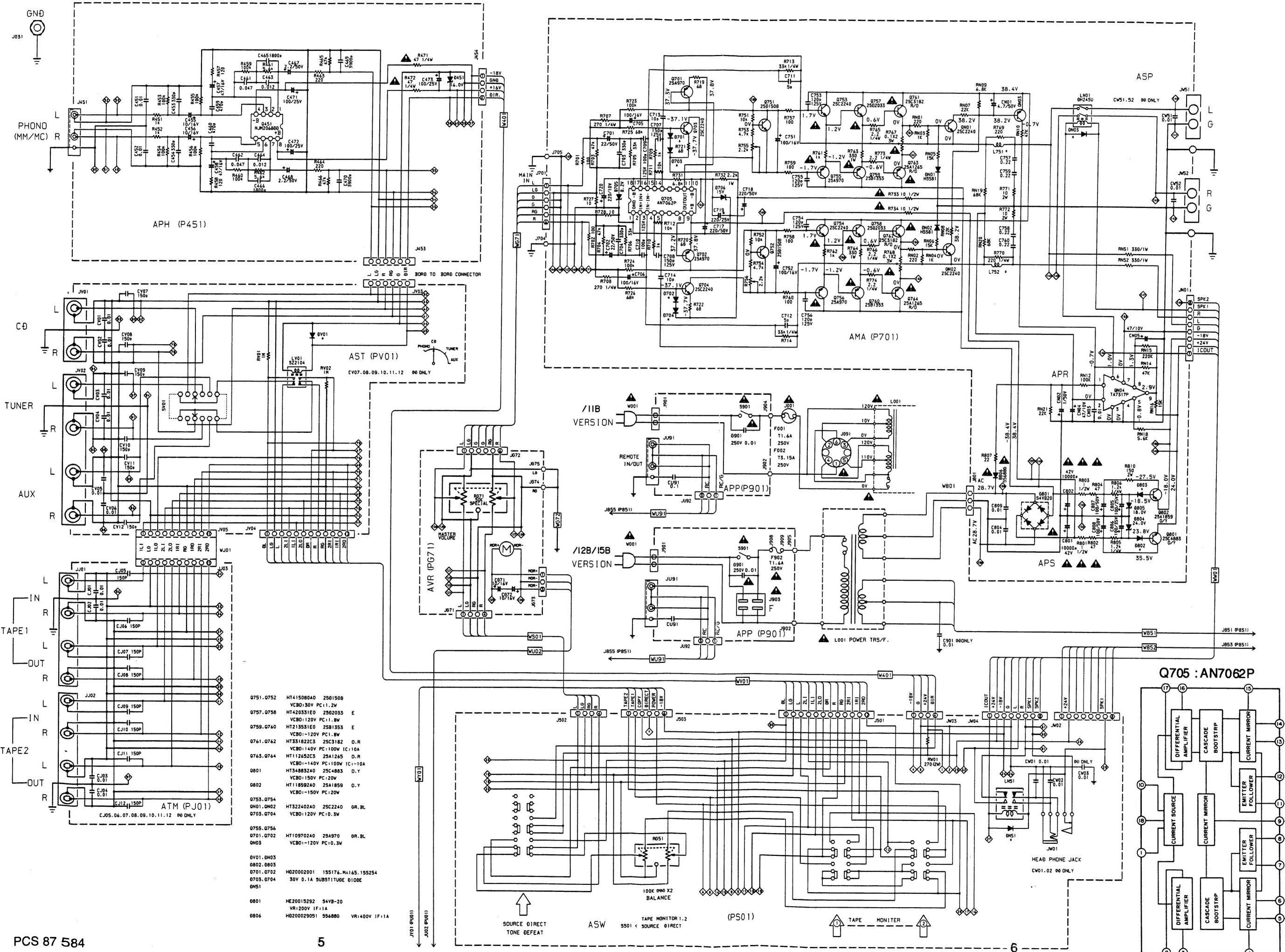
CAUTION

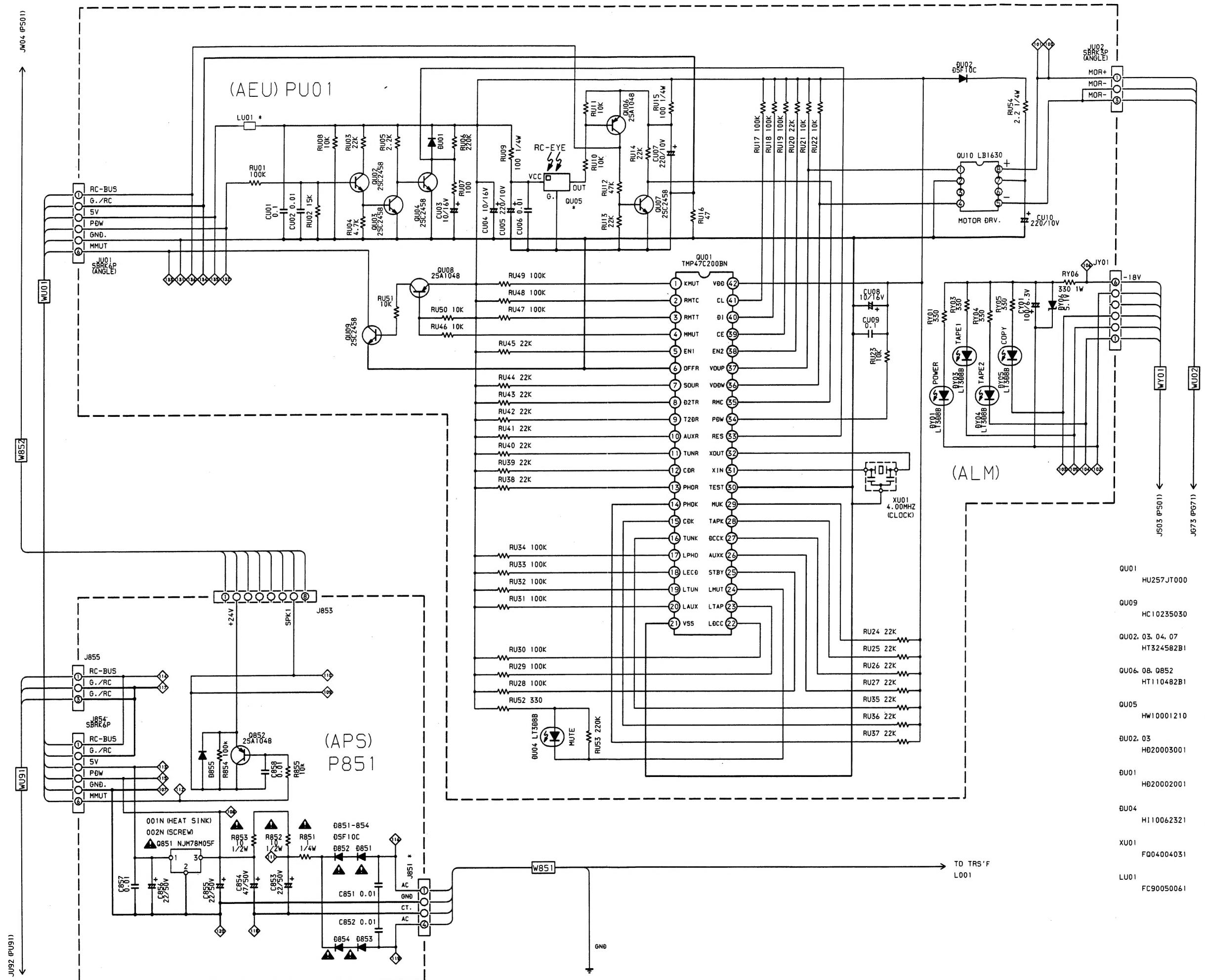
ATTENTION
AFIN D'ASSURER
UNE PROTECTION
PERMANENTE
CONTRE LES RISQUES
DE REMPLACER UNIQUEMENT
UNE FUSEABLE DE MÉTE
TYPE FUSE

BRN. (EUROPE) P901



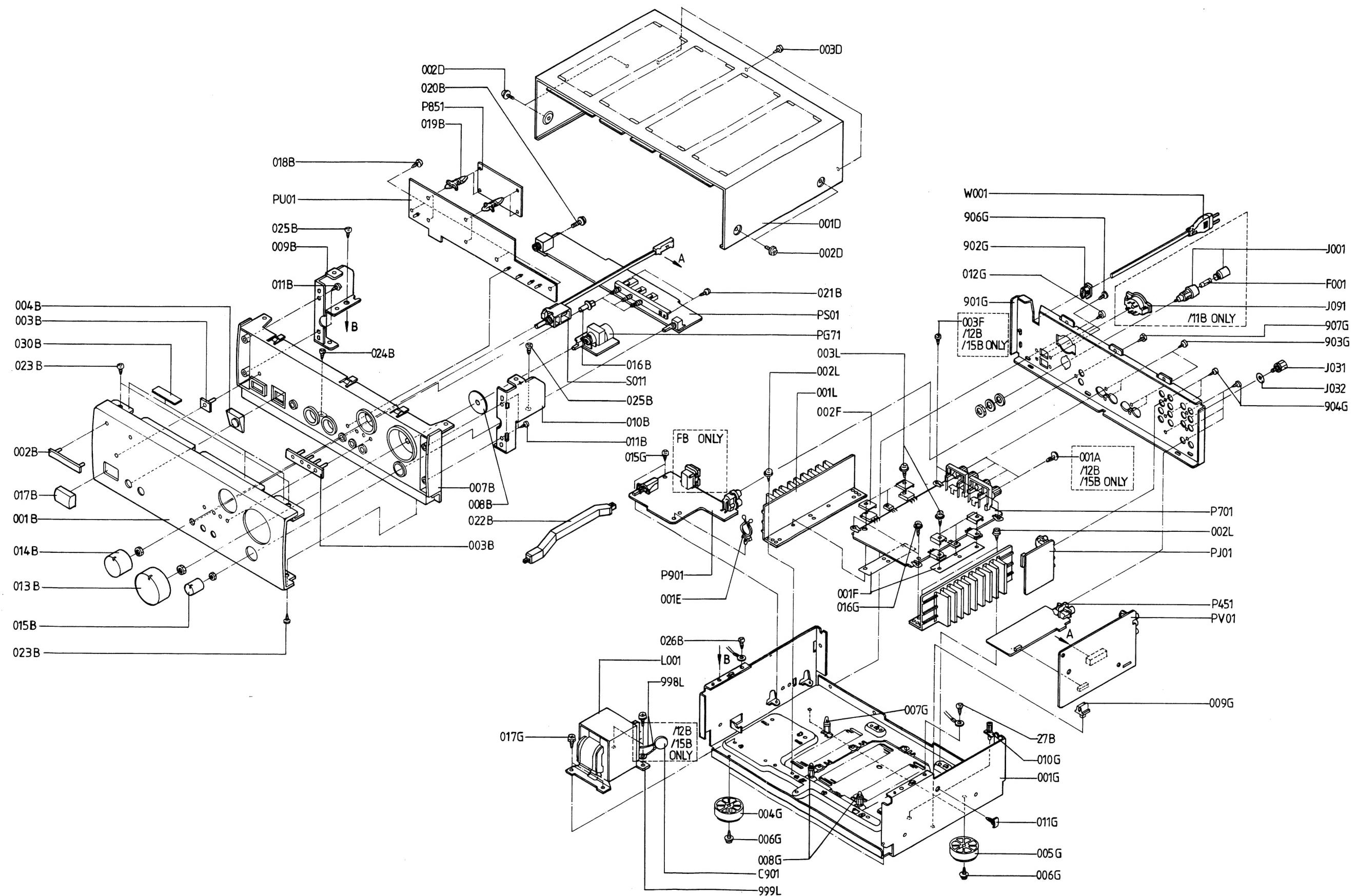
7. SCHEMATIC DIAGRAM AND PARTS LOCATION (Pattern side)





QU01	HU257JT000	TMP47C200BN	
QU09	HC10235030	LB1630	
QU02, 03, 04, 07	HT324582B1	2SC2458	Y/GR
QU06, 08, 0852	HT110482B1	2SA1048	Y/GR
QU05	HW10001210	RPM-674CBR-H22	
DU02, 03	HD20003001	DSF10C/RL103E	
DU01	HD20002001	ISS176/MA165/1SS254	
DU04	HI10062321	LT30BB/RE030	
XU01	FQ04004031	CST4.00MGW	4.00MHZ
LU01	FC90050061	FERRIT BEADS (B-01-RT)	

8. EXPLODED VIEW AND PARTS LIST



POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
001B		4822 459 04257	FRONT AL PANEL (PM-66SE)	432W248010
002B		4822 454 12948	MARANTZ BADGE (BL)	185J251010
003B			LENS FOR LED	432W355010
004B		4822 381 11561	IR LENS	185J355010
007B			FRONT MOULD CHASSIS	432W105012
013B		4822 410 10559	VOLUME KNOB BLACK D=50	063J154080
014B		4822 410 10117	SELECTOR KNOB	064J154080
015B		4822 410 10561	KNOB	185J154010
016B		4822 410 60343	PUSH BUTTON BLACK	058J270030
017B		4822 462 72053	POWER BUTTON (BL)	285K270010
022B		4822 402 10517	LINK	185J121010
004G		4822 462 42129	LEG (GOLD HOT STAMP)	183J057010
005G		4822 462 42131	LEG (GOLD HOT STAMP) FOR REAR	183J057110
▲F001	/11B	4822 070 31602	FUSE T1.60A IEC	QP07031602
▲F002	/11B	4822 070 33152	FUSE T3.15A IEC	FS10315850
▲J001	/11B	4822 256 30233	HOLDER FOR FUSES 5.2x10MM	YJ08000290
J031		4822 502 13921	SCREW PHONO GND	YL03010310
▲J091	/11B		SELECTOR VOLTAGE	BY05060090
▲L001	F /11B /12B/15B	4822 146 21743 4822 146 21744	TRANSFORMER E176/45 TRANSFORMER E176/45 OVS TRANSFORMER E176/45 IEC	*TS000570R TS17650020 TS17650010
▲W001	F /11B/12B /15B	4822 321 10781 4822 321 10941	MAINS CORD F/E MAINS CORD IEC MAINS CORD UK 5A	YC02000770 YC01800440 YC02000700
001T	F /11B /12B/15B	4822 736 14585	IFU PM-66SE (F) IFU PM-66SE (N)	432W851110 432W851310
Z001		4822 219 10067	REMOTO UNIT RC-66PM	ZK432W0010

9. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTOR

R*** : 1) GD05 x x x 140, Carbon film fixed resistor, $\pm 5\%$ 1/4W
 R** : 2) GD05 x x x 160, Carbon film fixed resistor, $\pm 5\%$ 1/6W

① — Resistance value

Examples :

① Resistance value
 0.1Ω...001 10Ω...100 1kΩ...102 100kΩ...104
 0.5Ω...005 18Ω...180 2.7kΩ...272 680kΩ...684
 1Ω...010 100Ω...101 10kΩ...103 1MΩ...105
 6.8Ω...068 390Ω...391 22kΩ...223 4.7MΩ...475

(Note) Please distinguish 1/4W from 1/6W by the shape of parts used actually.

C*** : CERAMIC CAP.

1) DD1x x x x 370, Ceramic capacitor
 Disc type
 Temp.coeff.P350~N1000.50V

① (2) Capacity value
 Tolerance

Examples

① Tolerance (Capacity deviation)
 $\pm 0.25\text{pF}$... 0
 $\pm 0.5\text{pF}$... 1
 $\pm 5\%$... 5

* Tolerance of COMMON PARTS handled here are as follows :

0.5pF~ 5pF... $\pm 0.25\text{pF}$
 6pF~ 10pF... $\pm 0.5\text{pF}$
 12pF~ 560pF... $\pm 5\%$

② Capacity value
 0.5pF...005 3pF...030 100pF...101
 1pF...010 10pF...100 220pF...221
 1.5pF...015 47pF...470 560pF...561

C*** : CERAMIC CAP.

1) DK16 x x x 300, High dielectric constant ceramic capacitor
 Disc type
 Temp.chara. 2B4, 50V

① Capacity value

Examples

① Capacity value
 100pF...101 1000pF...102 10000pF...103
 470pF...471 2200pF...222

C*** : ELECTROLY CAP. (), FILM CAP. ()

1) EA x x x x x 10, Electrolytic capacitor
 One-way lead type, Tolerance $\pm 20\%$

① (2) Working voltage
 Capacity value

Examples

① Capacity value
 0.1μF...104 4.7μF...475 100μF...107
 0.33μF...334 10μF...106 330μF...337
 1μF...105 22μF...226 1100μF...118
 2200μF...228

② Working voltage

6.3V...006 25V...025
 10V...010 35V...035
 16V...016 50V...050

2) DF15 x x x 350 → Plastic film capacitor
 DF15 x x x 310 → One-way type, Mylar $\pm 5\%$ 50V
 DF16 x x x 310 → Plastic film capacitor
 One-way type, Mylar $\pm 10\%$ 50V

① Capacity value

Examples

① Capacity value
 0.001μF(1000pF)...102 0.1μF...104
 0.0018μF.....182 0.56μF...564
 0.01μF.....103 1μF...105
 0.015μF.....153

NOTE : 1) The above CODES (R*** R** C*** C** and (C***) are omitted on the schematic diagram in some case.
 2) On the occasion, be confirmed the common parts on the parts list.
 3) Refer to "Common Parts List" for the other common parts (RI05, DD4, DK4).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows :

1. KOA Corporation

Part No.	Type No.	Description
NH05 x x x 140	RF25S x x x x QJ	($\pm 5\%$ 1/4W)
NH05 x x x 120	RF50S x x x x QJ	($\pm 5\%$ 1/2W)
NH85 x x x 110	RF73B2A x x x x QJ	($\pm 5\%$ 1/10W)
NH95 x x x 140	RF73B2E x x x x QJ	($\pm 5\%$ 1/4W)

└ * Resistance value └ Resistance value
 (0.1~10kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No.	Type No.	Description
NF05 x x x 140	ERD-2FCJ x x x	($\pm 5\%$ 1/4W)
RF05 x x x 140	ERD-2FCG x x x	($\pm 2\%$ 1/4W)
NF02 x x x 140	ERD-2FCG x x x	($\pm 2\%$ 1/4W)
RF02 x x x 140	ERD-2FCG x x x	($\pm 2\%$ 1/4W)

└ * Resistance value └ * Resistance value

Examples :

* Resistance value	0.1Ω...001	10Ω...100	1kΩ...102	100kΩ...104
* Resistance value	0.5Ω...005	18Ω...180	2.7kΩ...272	680kΩ...684
* Resistance value	1Ω...010	100Ω...101	10kΩ...103	1MΩ...105
* Resistance value	6.8Ω...068	390Ω...391	22kΩ...223	4.7MΩ...475

ABBREVIATION AND MARKS

1	ANT.	ANTENNA	2	BATT.	BATTERY
3	CAP.	CAPACITOR	4	CER.	CERAMIC
5	CONN.	CONNECTING	6	DIG.	DIGITAL
7	HP	HEADPHONE	8	MIC.	MICROPHONE
9	μ-PRO	MICROPROCESSOR	10	REC.	RECORDING
11	RES.	RESISTOR	12	SPK	SPEAKER
13	SW	SWITCH	14	TRANSF.	TRANSFORMER
15	TRIM.	TRIMMING	16	TRS.	TRANSISTOR
17	VAR.	VARIABLE	18	X'TAL	CRYSTAL
19			20		
21			22		
23			24		
25			26		
27			28		
29			30		

NOTE ON SAFETY :

Symbol  Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol  . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
			PG71-MASTER VOLUME CIRCUIT BOARD		LU01		4822 158 60605	PU01-MISCELLANEOUS FERRITE BEAD	FC90050060
CG71		4822 124 22571	ELECT CAP. 10 μ F 50V	OA10605020	XU01		4822 242 72527	CERAMIC RESONATOR 4.000MHz	FO04004030
CG72		4822 124 22571	ELECT CAP. 10 μ F 50V	OA10605020				PV01-INPUT SELECTOR CIRCUIT BOARD	
RG71		4822 101 30885	50K Ω MOTOR VARIABLE RES.	RY05030220	DV01		4822 130 32362	DIODE 1SS254	HD20022210
			PJ01-TAPE IN / OUT CIRCUIT BOARD		JV01		4822 266 30282	TERMINAL, 2P RCA JACK	YT02020610
JJ01		4822 266 30284	TERMINAL, 4P RCA JACK	YT02040690	JV02		4822 266 30284	TERMINAL, 4P RCA JACK	YT02040690
JJ02		4822 266 30284	TERMINAL, 4P RCA JACK	YT02040690	LV01		4822 280 20501	RELAY MR62-24SR	LY20240410
			PS01-TAPE MONL/TONE OUT,SPK. SW CIRCUIT BOARD		SV01		4822 277 21412	SLIDE SWITCH, SELECTOR	SS02040010
RG51		4822 100 30138	100K Ω (MN), VARIABLE RES.	RM01041310				P451-PHONO AMP. CIRCUIT BOARD	
RW01		4822 116 60455	270 Ω \pm 5% 2W, METAL RES.	NK05271020				P451-CAPACITORS	
DN51		4822 130 32364	DIODE 1SS254	HD20022210	C455		4822 124 22571	ELECT 10 μ F 50V	OA10605020
JW01		4822 267 31479	SOCKET HEADPHONE	QP26731479	C456		4822 124 22571	ELECT 10 μ F 50V	OA10605020
LN51		4822 280 20501	RELAY 2P 24V 2A MR62-24SR	LY20240410	C457		4822 124 41539	ELECT 47 μ F 16V	OA47601620
SS01		4822 276 12956	PUSH SWITCH SPUP30	SP06030240	C458		4822 124 41539	ELECT 47 μ F 16V	OA47601620
			PU01-TAPE INDICATOR/ μ -COM CIRCUIT BOARD		C467		4822 124 40244	ELECT 2.2 μ F 50V	OA22505020
CU01		4822 122 40617	PU01-CAPACITORS		C468		4822 124 40244	ELECT 2.2 μ F 50V	OA22505020
CU03		4822 124 22571	CER. 0.1 μ F +80% -20%	DD38104010	C469		4822 121 70198	FILM 3900PF \pm 10%	100V
CU04		4822 124 22571	ELECT 10 μ F 50V	OA10605020	C469		4822 121 70198	FILM 3900PF \pm 10%	100V
CU05		4822 124 90363	ELECT 10 μ F 50V	OA10605020	C471		4822 124 22238	ELECT 100 μ F 25V	OA10702550
CU07		4822 124 90363	ELECT 220 μ F 10V	OA22701020	C472		4822 124 22238	ELECT 100 μ F 25V	OA10702550
CU08		4822 124 22571	ELECT 220 μ F 10V	OA22701020	C473		4822 124 80293	ELECT 100 μ F 25V	OA10702550
CU09		4822 122 40617	ELECT 10 μ F 50V	OA10605020				P451-RESISTORS	
CU10		4822 124 90363	CER. 0.1 μ F +80% -20%	DD38104010	▲R471		4822 111 90731	47 Ω \pm 2% 1/4W, FUSIBLE	NF02470140
CU91		4822 122 40617	ELECT 220 μ F 10V	OA22701020	▲R472		4822 052 10479	47 Ω \pm 5% 1/4W	GG05470140
			CU01-CAPACITORS		D451		4822 130 34268	P451-SEMICONDUCTORS	
RU09		4822 117 12425	PU01-RESISTORS		Q451		4822 209 73064	ZENER BZX79-C16	QP13034268
RU15		4822 117 12425	100 Ω \pm 5% 1/4W	GG05101140				IC NJM2068D	HC10053090
▲RU54		4822 116 60309	100 Ω \pm 5% 1/4W, FUSIBLE	GG05101140				P451-MISCELLANEOUS	
			2.2 Ω \pm 5% 1/4W, FUSIBLE	NH05022140	J452		4822 265 20355	TERMINAL, 2P RCA JACK	YT02020650
RY06		4822 116 60494	PU01-RESISTORS					P701-POWER AMP. CIRCUIT BOARD	
DU01		4822 130 32362	330 Ω \pm 5% 2W, METAL	NK05331020				P701-CAPACITORS	
DU02		4822 130 32508	DIODE 1SS254	HD20022210	CN01		4822 124 22274	ELECT 4.7 μ F 50V	OA47505020
DU04		4822 130 80326	DIODE RL103E	HD20003000	CN02		4822 124 41543	ELECT 1 μ F 50V	OA10505020
			DU01-SEMICONDUCTORS		CN04		4822 124 22698	ELECT 47 μ F 25V	OA47602520
DY01		4822 130 80326	LED LT3D8D (RED)	HI10062320	CN05		4822 124 23417	ELECT 33 μ F 10V	OA33601020
DY03		4822 130 80326	LED LT3D8D (RED)	HI10062320	C701		4822 124 80123	ELECT 220 μ F 16V	OA22701640
DY04		4822 130 80326	LED LT3D8D (RED)	HI10062320	C702		4822 124 80123	ELECT 220 μ F 16V	OA22701640
DY05		4822 130 80326	LED LT3D8D (RED)	HI10062320	C705		4822 124 80293	ELECT 100 μ F 25V	OA10702520
DY06		4822 130 80317	LED LT3D8D (RED)	HI10062320	C706		4822 124 80293	ELECT 100 μ F 25V	OA10702520
QU01		4822 209 90571	ZENER MTZJ5.1B	HD30511000	C711		4822 123 30093	MICA 5PF \pm 0.5PF	500V
QU02		4822 130 60904	μ -PRO TMP47C200BN-H347	HU257JT000	C712		4822 123 30093	MICA 5PF \pm 0.5PF	500V
QU03		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0	C713		4822 123 30088	MICA 10PF \pm 0.5PF	250V
QU04		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0	C714		4822 123 30088	MICA 10PF \pm 0.5PF	250V
QU05		4822 130 83519	TRS. 2SC2458 (Y)	HT324581Y0	C717		4822 124 90366	ELECT 220 μ F 50V	OA22705020
QU06		4822 130 42372	IR RECEIVER RPM674CBR-H22	HW10001210	C718		4822 124 90366	ELECT 220 μ F 50V	OA22705020
QU07		4822 130 60904	TRS. 2SA1048 (Y)	HT110481Y0	C719		4822 124 41536	ELECT 220 μ F 25V	OA22702520
QU08		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0	C720		4822 124 90363	ELECT 220 μ F 10V	OA22701020
QU09		4822 130 60904	TRS. 2SC2458 (Y)	HT324581Y0	C751		4822 124 80293	ELECT 100 μ F 25V	OA10702520
QU10		4822 209 73287	IC LB1630	HC10235030	C752		4822 124 80293	ELECT 100 μ F 25V	OA10702520
					C753		4822 130 83519	FILM 120PF \pm 5%	100V
					C754				OF15121550
					C755				
					C756				

POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO.	VER. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)	
▲C801		4822 124 80692	ELECT 10000 μ F 6V	OB10905610	Q701		4822 130 42949	TRS. 2SA970	HT109701A0	
▲C802		4822 124 80692	ELECT 10000 μ F 6V	OB10905610	Q702		4822 130 42949	TRS. 2SA970	HT109701A0	
C805		4822 124 80293	ELECT 100 μ F 25V	OA10702520	Q703		4822 130 10445	TRS. 2SC2240	HT322401A0	
C806		4822 124 41536	ELECT 100 μ F 35V	OA10703520	Q704		4822 130 10445	TRS. 2SC2240	HT322401A0	
C807		4822 124 90355	ELECT 100 μ F 50V	OA10705020	Q705		4822 209 83732	IC AN7062P	HC10066020	
C808		4822 124 90355	ELECT 100 μ F 50V	OA10705020	Q751		4822 130 60526	TRS. 2SD1508	HT415080A0	
			P701-RESISTORS		Q752		4822 130 60526	TRS. 2SD1508	HT415080A0	
RN51		4822 053 10331	330 Ω \pm 5% 1W	GA05331010	▲Q753		4822 130 10445	TRS. 2SC2240	HT322401A0	
RN52		4822 053 10331	330 Ω \pm 5% 1W	GA05331010	▲Q754		4822 130 10445	TRS. 2SC2240	HT322401A0	
R713		4822 050 23303	33K Ω \pm 5% 1/4W	GG05333140	▲Q755		4822 130 42949	TRS. 2SA970	HT109701A0	
R714		4822 050 23303	33K Ω \pm 5% 1/4W	GG05333140	▲Q756		4822 130 42949	TRS. 2SA970	HT109701A0	
R719					▲Q757		4822 130 10446	TRS. 2SD2033 (E)	HT420331E0	
R722		4822 050 26809	68 Ω \pm 5% 1/6W	GG05680160	▲Q758		4822 130 10446	TRS. 2SD2033 (E)	HT420331E0	
R732		4822 117 11859	2.2K Ω \pm 5% 2W, METAL	NK05222020	▲Q759		4822 130 10447	TRS. 2SB1353 (E)	HT213531E0	
R733		4822 116 60313	10 Ω \pm 5% 1/2W, FUSIBLE	NH05100120	▲Q760		4822 130 10447	TRS. 2SB1353 (E)	HT213531E0	
R734		4822 116 60313	10 Ω \pm 5% 1/2W, FUSIBLE	NH05100120	▲Q761		4822 130 61747	TRS. 2SC3182 (R)	HT331821A0	
R755		4822 101 11166	2.2K Ω , TRIMMING	QP10111166	▲Q762		4822 130 61747	TRS. 2SC3182 (R)	HT331821A0	
R756		4822 101 11166	2.2K Ω , TRIMMING	QP10111166	▲Q763		4822 130 61746	TRS. 2SA1265 (R)	HT112651A0	
					▲Q764		4822 130 61746	TRS. 2SA1265 (R)	HT112651A0	
R757		4822 052 10101	100 Ω \pm 5% 1/6W	GG05101160	Q801		4822 130 63312	TRS. 2SC4883 (Y)	HT348832A0	
R760					Q802		4822 130 63308	TRS. 2SA1859 (Y)	HT118592A0	
R761		4822 052 10102	1K Ω \pm 5% 1/6W	GG05102160	JW51		4822 290 81363	P701-MISCELLANEOUS	YT01020160	
R762		4822 052 10102	1K Ω \pm 5% 1/6W	GG05102160	JW52		4822 290 81364	TERMINAL, SPEAKER	YT01020170	
R763		4822 116 60494	330 Ω \pm 5% 2W, METAL	NK05331020	LN01		4822 280 20197	RELAY, VB24SMBU	LY20240260	
R764		4822 116 60494	330 Ω \pm 5% 2W, METAL	NK05331020	L751		4822 157 63085	COIL, SPEAKER	ML08010010	
R765		4822 116 83963	2.2 Ω \pm 5% 1/4W	GG05022140	L752		4822 157 63085	COIL, SPEAKER	ML08010010	
R766		4822 116 83963	2.2 Ω \pm 5% 1/4W	GG05022140				P851- μ -COM / POWER		
R767		4822 111 91402	0.1 Ω x 2 \pm 10% 3W	BZ10102010				SUPPLY CIRCUIT BOARD		
R768		4822 111 91402	0.1 Ω x 2 \pm 10% 3W	BZ10102010						
R769		4822 117 10028	220 Ω \pm 5% 1/4W	GG05221140				P851-CAPACITORS		
R770		4822 117 10028	220 Ω \pm 5% 1/4W	GG05221140						
R771		4822 116 83353	10 Ω \pm 5% 3W, METAL	NK05100030	C853		4822 124 90355	ELECT 100 μ F 50V	OA10705020	
R772		4822 116 83353	10 Ω \pm 5% 3W, METAL	NK05100030	C854		4822 124 90355	ELECT 100 μ F 50V	OA10705020	
R773		4822 116 83963	2.2 Ω \pm 5% 1/4W	GG05022140	C855		4822 124 90362	ELECT 22 μ F 50V	OA22605020	
R774		4822 116 83963	2.2 Ω \pm 5% 1/4W	GG05022140	C856		4822 124 90362	ELECT 22 μ F 50V	OA22605020	
▲R801		4822 116 60306	1 Ω \pm 5% 1/2W, FUSIBLE	NH05010120				P851-RESISTORS		
▲R802		4822 111 90731	47 Ω \pm 2% 1/4W, FUSIBLE	NF02470140						
▲R803		4822 116 60306	1 Ω \pm 5% 1/2W, FUSIBLE	NH05010120	▲R851		4822 117 10158	1 Ω \pm 5% 1/4W	GG05010140	
▲R804		4822 111 90731	47 Ω \pm 2% 1/4W, FUSIBLE	NF02470140	▲R852		4822 116 60313	10 Ω \pm 5% 1/2W, FUSIBLE	NH05100120	
R805		4822 117 12426	1.2K Ω \pm 5% 1/4W	GG05122140	▲R853		4822 116 60313	10 Ω \pm 5% 1/2W, FUSIBLE	NH05100120	
R806		4822 117 12426	1.2K Ω \pm 5% 1/4W	GG05122140				P851-SEMICONDUCTORS		
▲R807		4822 113 90119	22 Ω \pm 2% 1/4W, FUSIBLE	NF02220140	▲D851		4822 130 32508	DIODE RL103E	HD20003000	
R810		4822 117 11858	150 Ω \pm 5% 3W, METAL	NK05151030	▲D854		4822 130 32362	DIODE 1SS254	HD20022210	
			P701-SEMICONDUCTORS		D855		▲Q851	4822 209 71903	IC NJM78M05FA	HC385050PF
DN01		4822 130 80837	DIODE HSS81TD	HD20027010	Q852		4822 130 42372	TRS. 2SA1048 (Y)	HT110481Y0	
DN02		4822 130 80837	DIODE HSS81TD	HD20027010				P901-POWER SWITCH / FUSE		
DN03		4822 130 32362	DIODE 1SS254	HD20022210				CIRCUIT BOARD		
D701										
D704										
D705		4822 130 80273	ZENER MTZJ8.2C	HD30821000						
D706		4822 130 80322	ZENER MTZJ16A	HD31501000						
▲D801		4822 130 31007	DIODE S4VB-20	HE20015290	▲G901	/11B	4822 121 43732	CER. CAP. 0.01 μ F \pm 20%	250V	
D802		4822 130 32362	DIODE 1SS254	HD20022210	▲G901	/12B	4822 121 43732	FILM CAP. 0.01 μ F \pm 20%	250V	
D803		4822 130 32362	DIODE 1SS254	HD20022210	▲F901	F	4822 253 30415	FUSE 0.5A 125V	*FS000320R	
D804		4822 130 34398	ZENER BZX79-C24	QP13034398	▲F902		4822 265 10651	FUSE T1.6A 250V	FS10160850	
D805		4822 130 31024	ZENER BZX79-C18	QP13031024	JU91		4822 276 13772	TERMINAL, 2P RCA JACK	YT02020890	
▲D806		4822 130 80839	DIODE S5688G	HD20029050	▲J903	F		AC OUTLET	*YT000970R	
QN01		4822 130 10445	TRS. 2SC2240	HT322401A0	▲S901			PUSH SWITCH, POWER	SP01011540	
QN02		4822 130 10445	TRS. 2SC2240	HT322401A0						
QN03		4822 130 42949	TRS. 2SA970	HT109701A0						
QN04		4822 209 83312	IC TA7317P	HC10042050						